

XP-002274621

AN - 2002-010551 [01]

AP - KR20020712031 20020913; WO2001IT00105 20010302; AU20010044527 20010302;
[Based on WO0168516] ; EP20010917451 20010302; [Cont of]
WO2001IT00150 20010302; US20020244906 20020916; CN20010806513 20010302;
JP20010567623 20010302; TW20010105178 20010508; IT2000MI00529 20000315;
[Cont of] WO2001IT00105 20010302

CPY - SAES

DC - A97 E13 E36 J01

DS - BE CY EA FR GR IE IT MC NL OA SZ LI

DR - 0858-S 0858-U 1532-U

FS - CPI

IC - C01B3/00 ; C07D251/00 ; C07D251/30 ; C07D251/34 ; C07D253/06 ;
C09K3/00 ; H01J7/00 ; H01J7/18 ; H01J35/20 ; H01K1/56

IN - DELLA BIANCA S; MANFREDI A; MONTANARI F; QUICI S; TOIA L; VILLA E

MC - A12-W11 E07-D13A E07-D13B E07-D13C E11-Q02 E31-A03 J01-E03 N02-F

M3 - [01] A546 C810 M411 M730 M904 M905 Q421; R03031-K R03031-C

- [02] C101 C550 C810 M411 M750 M904 M905 N163 N441 Q431; R01532-K
R01532-X; 1532-U

- [03] G010 G100 H4 H401 H481 H7 H721 H8 M280 M313 M321 M332 M342 M373
M391 M414 M510 M520 M531 M540 M730 M904 M905; R07169-K R07169-S

- [04] F012 F014 F016 F580 H6 H602 H607 H609 H623 M280 M320 M413 M510
M521 M530 M540 M730 M904 M905 M910; 00212; R00858-K R00858-S; 0858-S
0858-U

- [05] F012 F014 F016 F580 G010 G019 G100 H5 H523 H7 H723 H8 L910 L999
M280 M313 M323 M332 M342 M373 M393 M413 M510 M521 M533 M540 M710 M720
M904 M905 N163 N209 N225 N262 N309 N342 N422 N426 N512 Q508; 00212;
RA5R3O-N RA5R3O-P

- [06] F012 F014 F016 F580 H5 H523 H583 H7 H731 H8 L910 L999 M210 M211
M272 M283 M314 M323 M332 M342 M383 M393 M413 M510 M521 M530 M540 M781
M904 M905 N163 Q508; 00212; RA5R3S-K RA5R3S-U

- [07] F013 F015 F016 F580 G010 G019 G020 G021 G029 G040 G100 G111 G112
G221 G299 H102 H121 H122 H123 H521 H522 H523 H592 H599 H7 H713 H715
H716 H721 H722 H723 H731 L910 L921 L922 L941 L943 L999 M123 M125 M129
M135 M139 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224
M225 M226 M231 M232 M233 M240 M271 M272 M273 M280 M281 M282 M283 M311
M312 M313 M314 M315 M316 M320 M321 M322 M323 M331 M332 M333 M340 M342
M373 M391 M392 M393 M413 M510 M521 M530 M531 M532 M533 M540 M781 M904
M905 N163 Q508; 00211; 0052-23302-K 0052-23302-R

- [08] F012 F014 F016 F580 G010 G019 G020 G021 G029 G040 G100 G111 G112
G221 G299 H102 H121 H122 H123 H521 H522 H523 H592 H599 H7 H713 H715
H716 H721 H722 H723 H731 L910 L921 L922 L999 M123 M125 M129 M135 M139
M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226
M231 M232 M233 M240 M271 M272 M273 M280 M281 M282 M283 M311 M312 M313
M314 M315 M316 M320 M321 M322 M323 M331 M332 M333 M340 M342 M373 M391
M392 M393 M413 M510 M521 M530 M531 M532 M533 M540 M781 M904 M905 N163
Q508; 00212; 0052-23301-K 0052-23301-R

PA - (SAES) SAES GETTERS SPA

PN - KR2003076219 A 20030926 DW200410 C01B3/00 000pp

- WO0168516 A1 20010920 DW200201 C01B3/00 Eng 018pp

- AU200144527 A 20010924 DW200208 C01B3/00 000pp

- EP1265810 A1 20021218 DW200301 C01B3/00 Eng 000pp

- US2003052304 A1 20030320 DW200323 H01J7/18 000pp
- CN1418171 A 20030514 DW200355 C01B3/00 000pp
- JP2003527357T T 20030916 DW200362 C07D251/34 019pp
- TW527349 A 20030411 DW200366 C07D253/06 000pp
- IT1318392 B 20030825 DW200372 H01J7/00 000pp
- US6645396 B2 20031111 DW200382 H01J7/18 000pp

PR - IT2000MI00529 20000315

XA - C2002-002533

XIC - C01B-003/00 ; C07D-251/00 ; C07D-251/30 ; C07D-251/34 ; C07D-253/06 ; C09K-003/00 ; H01J-007/00 ; H01J-007/18 ; H01J-035/20 ; H01K-001/56

AB - WO200168516 NOVELTY - A hydrogen getter composition comprises unsaturated organic substance and a hydrogenation catalyst.

- DETAILED DESCRIPTION - A hydrogen getter composition comprises unsaturated organic substance and a hydrogenation catalyst. The unsaturated organic substance is a compound of general formula (A) or (A'), its dimer or polymer or a copolymer having structural units of formula (A) or (A').
- R1-R3 = hydrogen or hydrocarbon moieties optionally containing 1 or more heteroatoms and at least one of R1-R3 is an alkenyl, alkynyl, arylalkenyl and arylalkynyl moieties optionally comprising one or more heteroatoms such as sulfur, oxygen and nitrogen bonded to triazine ring.
- INDEPENDENT CLAIMS are also included for the following:
 - (i) Unsaturated organic substance of formula (I); and
 - (ii) Process of synthesis of the organic substance by reacting 2,4,6-trichloro-1,3,5-triazine with three equivalents of alkaline metal cinnamate.
- USE - For hydrogen sorption in closed container at low pressure.
- ADVANTAGE - The hydrogen getter composition has high hydrogen sorption rates. Production cost is reduced. Synthesis of unsaturated organic substance is carried out using available starting materials without requiring expensive catalyst and subsequent separation steps. High yield of product is obtained. The composition has good thermal resistant features.
- (Dwg.0/2)

CN - R03031-K R03031-C R01532-K R01532-X R07169-K R07169-S R00858-K R00858-S RA5R3O-N RA5R3O-P RA5R3S-K RA5R3S-U 0052-23302-K 0052-23302-R 0052-23301-K 0052-23301-R

DN - AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

DRL - 1532-U 0858-S 0858-U

IW - HYDROGEN GETTER COMPOSITION HYDROGEN SORPTION CLOSE CONTAINER LOW PRESSURE COMPRISE UNSATURATED ORGANIC SUBSTANCE HYDROGENATION CATALYST

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INW - DELLA BIANCA S; MANFREDI A; MONTANARI F; QUICI S; TOIA L; VILLA E

NC - 096

OPD - 2000-03-15

ORD - 2001-09-20

PAW - (SAES) SAES GETTERS SPA

RRL - 00212 00211

**TI - Hydrogen getter composition for hydrogen sorption in closed container
at low pressure, comprises unsaturated organic substance and
hydrogenation catalyst**

**A01 - [001] 018 ; G0011 G0000 D01 D51 D52 G0022-R D53 G0817-R D54 G0986
G0975 D55 D12 D10 D18-R D23 D22 D31 D32 D33 D34 D35 D76 D45 D56 D57
D59 F19 F34 N- 5A O- 6A S- ; G0986 G0975 D01 D51 D55 D12 D10 D19 D18
D23 D22 D34 D76 D45 D57 D59 D95 F19 F34 ; G0011 G0000 D01 D51 D52 D11
D10 D12 D23 D22 D31 D76 D45 D57 D59 D93 F19 F34 ; H0000 ; H0011-R ;
M9999 M2722 M2711 ; L9999 L2391 ; L9999 L2722 L2711**

- [002] 018 ; ND01 ; ND04 ; Q9999 Q9370 ; Q9999 Q6984

- [003] 018 ; D00 D09 8B-R Tr Pd 8B ; C999 C102 C000 ; C999 C271

**- [004] 018 ; R01544 D00 F20 Al 3A O- 6A ; R05085 D00 D09 C- 4A ;
C999 C168 ; C999 C271**

**A02 - [001] 018 ; G0986 G0975 D01 D51 D55 D12 D10 D19 D18 D23 D22 D34 D76
D45 D57 D59 D95 F19 F34 ; H0271 ; L9999 L2471 ; L9999 L2200 ;
L9999 L2813**

- [002] 018 ; ND08

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